

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An information processing apparatus as a recording command apparatus for transmitting a data recording processing request to a plurality of nodes connected to a network, ~~characterized by~~ comprising:

a rule deciding condition setting unit ~~for setting~~ configured to set data ~~for determining to allow a determination of~~ whether processing according to the processing request is to be executed in a any node of the plurality of nodes that receives the data recording processing request;

a packet generating unit ~~for storing~~ configured to store the data ~~for determination~~ set by the rule deciding condition setting unit, and ~~for generating~~ configured to generate a data recording processing request packet that ~~stores~~ includes the data for recording processing; and

a network interface unit ~~for transmitting~~ configured to transmit the packets generated by the packet generating unit to each node in the plurality of nodes.

Claim 2 (Currently Amended): The information processing apparatus according to claim 1, ~~characterized in that~~ wherein:

said rule deciding condition setting unit is configured to ~~execute setting processing for~~ set a probability value, $[[:]] \propto [[as]]$, ~~in a description of~~ recording rule deciding condition for use in determining whether the processing according to the processing request is to be executed in $[[a]]$ the node that receives the data recording processing request; and

said packet generating unit is configured to ~~execute generation processing for~~ generate packets that ~~store~~ include the probability value, $[[:]] \propto [[as]]$ ~~in the description of~~

recording rule deciding condition.

Claim 3 (Currently Amended): The information processing apparatus according to claim 1, ~~characterized by~~ further comprising:

a data processing unit ~~for executing~~ configured to execute FEC encoding processing and interleave processing ~~[[for]]~~ of data for recording processing ~~[[; and]]~~ , wherein

said packet generating unit is configured to ~~execute generation processing of~~ generate a packet in which the data processed by the data processing unit is set as a payload.

Claim 4 (Currently Amended): The information processing apparatus according to claim 1, ~~characterized by~~ further comprising:

a data processing unit ~~for executing~~ configured to execute FEC encoding processing ~~[[for]]~~ of data for recording processing, wherein the data processing unit is configured to divide the data into p blocks and to execute encoding processing of encoding rate ~~[[of]]~~ q/p for converting into q blocks by applying FEC encoding to thus generated p blocks, and wherein~~[[;]]~~

said rule deciding condition setting unit is configured to set a probability value, ~~[[;]]~~ α_1 ~~which causes to record data with~~ as a recording probability ~~$\div \alpha$ as a description of~~ in a recording rule deciding condition in a node that receives the data recording processing request, and is configured to set the probability value, ~~[[;]]~~ α_1 so that a relation between the number of return blocks, ~~[[;]]~~ $q \times \alpha \times n \times \beta_1$ which is able to be calculated from a return probability, ~~[[;]]~~ β_1 specified by a reproducing command apparatus connected to the network, the number of the encoded blocks, ~~[[;]]~~ q, and the number of network connection nodes, ~~[[;]]~~ n, and the number of blocks, ~~[[;]]~~ p, becomes the number of return blocks, ~~[[;]]~~ $q \times \alpha \times n \times \beta$ > the number of blocks, ~~[[;]]~~ p.

Claim 5 (Currently Amended): An information processing apparatus as a reproducing command apparatus for transmitting a data reproducing processing request to a plurality of nodes connected to a network, ~~characterized by~~ comprising:

a rule deciding condition setting unit ~~for setting~~ configured to set data ~~for determining to allow a determination of~~ whether processing according to the processing request is to be executed in a any node of the plurality of nodes that receives the data reproducing processing request;

a packet generating unit ~~for storing~~ configured to store the data ~~for determination~~ set by the rule deciding condition setting unit, and ~~for generating~~ configured to generate a data reproducing processing request packet that ~~stores~~ includes the data for reproducing processing; and

a network interface unit ~~for transmitting~~ configured to transmit the packets generated by the packet generating unit to each node in the plurality of nodes.

Claim 6 (Currently Amended): The information processing apparatus according to claim 5, ~~characterized in that~~ wherein:

said rule deciding condition setting unit is configured to ~~execute setting processing for~~ set a probability value, $[[:]] \alpha, [[as]]$ ~~in a description of~~ reproducing rule deciding condition for use in determining whether the processing according to the processing request is to be executed in $[[a]]$ the node that receives the data reproducing processing request; and

the packet generating unit is configured to ~~execute generation processing for~~ generate packets that ~~store~~ include the probability value, $[[:]] \alpha, [[as]]$ ~~in the description of~~ reproducing rule deciding condition.

Claim 7 (Currently Amended): The information processing apparatus according to claim 5, ~~characterized by~~ further comprising:

a data recovery processing unit ~~for executing~~ configured to execute de-interleave processing and FEC decoding processing, wherein;

said data recovery processing unit ~~executes~~ is configured to execute the de-interleave processing and the FEC decoding processing ~~for data for reproducing processing data~~ extracted from a packet received from a node that receives the data reproducing processing request, and recovers the data.

Claim 8 (Currently Amended): The information processing apparatus according to claim 5, ~~characterized in that~~ wherein:

said data for reproducing processing stored in the node is the data divided into p blocks ~~executed that underwent~~ encoding processing ~~[[of]]~~ at encoding rate ~~[[of]]~~ q/p for ~~converting conversion~~ into q blocks by applying FEC encoding to thus generated p blocks, and

said rule deciding condition setting unit is configured to set a probability value, $[\beta_1]$ ~~β_1 which causes to~~ for return data with a return probability : β as a description of in the reproducing rule deciding condition in a node that receives the data reproducing processing request, and is configured to set the probability value, $[\beta_1]$ ~~β_1 so that a relation between the~~ number of return blocks, $[\beta_1]$ $q \times \alpha \times n \times \beta_1$ which is ~~able to be~~ calculated from a recording probability, $[\alpha]$ α , specified by a recording command apparatus connected to the network, the number of the encoded blocks, $[q]$ q , and the number of network connection nodes, $[n]$ n , and the number of blocks, $[p]$ p , becomes the number of return blocks, $[\beta_1]$ $q \times \alpha \times n \times \beta$ > the number of blocks, $[p]$ p .

Claim 9 (Currently Amended): An information processing apparatus ~~characterized by~~ comprising:

a data reception unit;

a rule decision processing unit ~~for determining~~ configured to determine whether data processing based on a data processing request received via the data reception unit is to be executed; and

a data processing unit ~~for executing~~ configured to execute data processing based on the determination of the rule decision processing unit, wherein[[:]]

the rule decision processing unit is configured to execute determination processing for determining whether or not the processing according to the processing request is to be executed based on data for determination included in the data processing request received via the data reception unit.

Claim 10 (Currently Amended): The information processing apparatus according to claim 9, ~~characterized in that~~ wherein:

said data for determination is a probability value as a rule deciding condition descriptor included in a data processing request; and

said rule decision processing unit is configured to determine whether or not the processing according to a processing request is to be executed ~~in accordance with~~ based on the probability value.

Claim 11 (Currently Amended): The information processing apparatus according to claim 9, ~~characterized in that~~ wherein:

said data for determination is a probability value as a rule deciding condition descriptor included in a data processing request; and

said rule decision processing unit is configured to execute random number generation processing, and to execute determining processing for determining whether or not the processing according to a processing request is to be executed ~~according to~~ based on a ~~result~~ of comparison between a generated random number and the probability value.

Claim 12 (Currently Amended): The information processing apparatus according to claim 9, ~~characterized in that~~ wherein:

said data for determination is data processing request storing data included in a data processing request; and

said rule decision processing unit is configured to perform hash value calculation processing based on the data processing request storing data, and to execute determining processing for determining whether or not the processing according to a processing request is to be executed ~~according to~~ based on a ~~result~~ of comparison between a calculated hash value and a setting value set in its own apparatus in advance.

Claim 13 (Currently Amended): A data recording processing method for transmitting a data recording processing request to a plurality of nodes connected to a network, and for executing distributed data recording processing for the plurality of nodes, ~~characterized by~~ comprising:

a rule deciding condition setting step for setting data ~~for determining~~ to allow a determination of whether the processing according to the processing request is to be executed in a any node of the plurality of nodes that receives the data recording processing request;

a packet generating step storing data for determination set by the rule deciding condition setting step, and for generating a data recording processing request packet that ~~stores~~ includes the data for recording processing; and

a packet transmitting step for transmitting the packets generated by the packet generating step to each node in the plurality of nodes.

Claim 14 (Currently Amended): The data recording processing method according to claim 13, ~~characterized in that~~ wherein:

said rule deciding condition setting step ~~executes setting~~ sets a processing for a probability value, α ~~[[:]]~~ α ~~[[as]]~~ in a ~~description of~~ recording rule deciding condition for use in determining whether the processing according to the processing request is to be executed in a node that receives the data recording processing request; and

said packet generating step ~~executes generation processing for~~ generates packets that store the probability value, α ~~[[:]]~~ α ~~[[as]]~~ in the ~~description of~~ recording rule deciding condition.

Claim 15 (Currently Amended): The data recording processing method according to claim 13, ~~characterized in that~~ wherein:

said data recording processing method further comprises a data processing unit for executing FEC encoding processing and interleave processing ~~[[for]]~~ of the data for recording processing; and

said packet generating step executes generation processing of a packet in which the data processed by the data processing step is set as a payload.

Claim 16 (Currently Amended): The data recording processing method according to claim 13, ~~characterized in that~~ wherein:

said data recording processing method further comprises a data processing step for executing FEC encoding processing ~~[[for]]~~ of the data for recording processing, wherein said

data processing step divides the data into p blocks and executes encoding processing ~~[[of]]~~ at encoding rate of q/p for converting into q blocks by applying FEC encoding to thus generated p blocks; and

said rule deciding condition setting unit sets a probability value, ~~[[:]]~~ α , ~~which causes~~ to ~~for~~ record data with a recording probability, ~~[[:]]~~ α , ~~[[as]]~~ in a ~~description of~~ recording rule deciding condition in a node that receives the data recording processing request, and sets the probability value, ~~[[:]]~~ α , so that ~~a relation between~~ the number of return blocks, ~~[[:]]~~ $q \times \alpha \times n \times \beta$, which is able to be calculated from a return probability, ~~[[:]]~~ β , specified by a reproducing command apparatus connected to the network, the number of the encoded blocks, ~~[[:]]~~ q , and the number of network connection nodes, ~~[[:]]~~ n , and the number of blocks, ~~[[:]]~~ p , becomes the number of return blocks, ~~[[:]]~~ $q \times \alpha \times n \times \beta >$ the number of blocks, ~~[[:]]~~ p .

Claim 17 (Currently Amended): A data reproducing processing method for transmitting a data reproducing processing request to a plurality of nodes connected to a network, and for executing data reproducing processing based on return data, ~~characterized~~ by comprising:

a rule deciding condition setting step for setting data ~~for determining to allow a~~ determination of whether the processing according to the processing request is to be executed in a any node of the plurality of nodes that receives the data reproducing processing request;

a packet generating step for storing the data for determination set by the rule deciding condition setting step, and for generating a data reproducing processing request packet that ~~stores specifying data of the~~ includes the data for reproducing processing; and

a packet transmitting step for transmitting the packets generated by the packet generating step to each node in the plurality of nodes.

Claim 18 (Currently Amended): The data reproducing processing method according to claim 17, ~~characterized in that~~ wherein:

said rule deciding condition setting step executes setting processing for a probability value, β , ~~in a description of reproducing rule deciding condition~~ for use in determining whether the processing according to the processing request is to be executed in ~~the~~ the node that receives the data reproducing processing request; and

said packet generating step executes generation processing for packets that store the probability value, β , ~~in the description of reproducing rule deciding condition~~.

Claim 19 (Currently Amended): The data reproducing processing method according to claim 17, ~~characterized in that~~ further comprising:

~~said data reproducing processing method further comprises:~~

a data recovery processing step for executing de-interleave processing and FEC decoding processing; wherein

said data recovery processing step executes the de-interleave processing and the FEC decoding processing ~~of the~~ of the data for reproducing processing extracted from a packet received from ~~the~~ the node that receives the data reproducing processing request, and recovers the data.

Claim 20 (Currently Amended): The data reproducing processing method according to claim 17, ~~characterized in that~~ wherein:

said data for reproducing processing stored in the node is the data divided into p blocks ~~executed encoding processing of encoded at~~ encoded at encoding rate of q/p for converting into q blocks by applying FEC encoding to thus generated p blocks; and

said rule deciding condition setting step sets a probability value, β , ~~which causes to return data with~~ as a return probability β ~~as a description of~~ in reproducing rule deciding condition in α the node that receives the data reproducing processing request, and sets the probability value, β , so that ~~a relation between~~ the number of return blocks, $q \times \alpha \times n \times \beta$, which is able to be calculated from a recording probability, α , specified by a recording command apparatus connected to the network, the number of the encoded blocks, q , and the number of network connection nodes, n , and the number of blocks, p , becomes the number of return blocks, $q \times \alpha \times n \times \beta > \text{the number of blocks, } p$.

Claim 21 (Currently Amended): A data processing method for analyzing a data processing request received via a data reception unit, and for determining whether the data processing request is to be executed, ~~characterized by~~ comprising:

a rule decision processing step for determining whether data processing based on the data processing request is to be executed; and

a data processing step for executing data processing based on the determination of the rule decision processing step, wherein

the rule decision processing step determines whether or not the processing according to the processing request is to be executed based on data for determination included in the data processing request received via the data reception unit.

Claim 22 (Currently Amended): The data processing method according to claim 21, ~~characterized in that~~ wherein:

said data for determination is a probability value that is a rule deciding condition descriptor included in the data processing request; and

said rule decision processing step determines whether or not the processing according to the processing request is to be executed in accordance with the probability value.

Claim 23 (Currently Amended): The data processing method according to claim 21, ~~characterized in that~~ wherein:

said data for determination is a probability value that is a rule deciding condition descriptor included in the data processing request; and

said rule decision processing step executes random number generation processing, and determines whether or not the processing according to the processing request is to be executed ~~according to a result of~~ based on a comparison between a generated random number and the probability value.

Claim 24 (Currently Amended): The data processing method according to claim 21, ~~characterized in that~~ wherein:

said data for determination is data processing request storing data included in the data processing request; and

said rule decision processing step executes hash value calculation processing based on the data processing request storing data, and determines whether or not processing according to the processing request is to be executed ~~according to a result of~~ based on a comparison between a calculated hash value and a setting value set in its own apparatus in advance.

Claim 25 (Currently Amended): A computer program for transmitting a data recording processing request to a plurality of nodes connected to a network and for executing distributed data recording processing for the plurality of nodes, ~~characterized by~~ comprising:

a rule deciding condition setting step for setting data ~~for determining~~ that allows a determination of whether the processing according to the processing request is to be executed in a any node of the plurality of nodes that receives the data recording processing request;

a packet generating step for storing the data for determination set by the rule deciding condition setting step, and for generating a data recording processing request packet that ~~stores~~ includes the data for recording processing; and

a packet transmitting step for transmitting the packets generated by the packet generating step to each node in the plurality of nodes.

Claim 26 (Currently Amended): A computer program for transmitting a data reproducing processing request to a plurality of nodes connected to a network and for executing data reproducing processing based on return data, ~~characterized by~~ comprising:

a rule deciding condition setting step for setting data ~~for determining~~ to allow a determination of whether the processing according to the processing request is to be executed in a any node of the plurality of nodes that receives the data recording processing request;

a packet generating step for storing the data for determination set by the rule deciding condition setting step, and for generating a data reproducing processing request packet that ~~stores~~ includes specifying data ~~for data~~ for reproducing processing; and

a packet transmitting step for transmitting the packets generated by the packet generating step to each node in the plurality of nodes.

Claim 27 (Currently Amended): A computer program for analyzing a data processing request received via a data reception unit, and for determining whether the data processing request is to be executed, ~~characterized by~~ comprising:

a rule decision processing step for determining whether the data processing based on the data processing request is to be executed; and

a data processing step for executing the data processing based on the determination of the rule decision processing step, wherein[[;]]

the rule decision processing step determines whether or not the processing according to the processing request is to be executed based on data for determination included in the data processing request received via the data reception unit.